

Title (en)
ELECTRO-OPTICAL ELEMENT INCLUDING METALLIC FILMS AND METHODS FOR APPLYING THE SAME

Title (de)
ELEKTOOPTISCHE ELEMENTE MIT METALLISCHEN FOLIEN UND ANWENDUNGSVERFAHREN DAFÜR

Title (fr)
ELEMENT ELECTRO-OPTIQUE COMPORTANT DES FILMS METALLIQUES ET SES PROCEDES D'APPLICATION

Publication
EP 1996974 A4 20101103 (EN)

Application
EP 07752234 A 20070305

Priority
• US 2007005520 W 20070305
• US 77936906 P 20060303
• US 81092106 P 20060605

Abstract (en)
[origin: US2007206263A1] An electrochromic element comprises a first substrate having a first surface and a second surface opposite the first surface, a second substrate in spaced-apart relationship to the first substrate and having a third surface facing the second surface and a fourth surface opposite the third surface, and an electrochromic medium located between the first and second substrates, wherein the electrochromic medium has a light transmittance that is variable upon application of an electric field thereto. The electrochromic element further comprises a transparent electrode layer covering at least a portion of at least a select one of the first surface, the second surface, the third surface, and the fourth surface, wherein the transparent electrode layer comprises an insulator/metal/insulator stack. The materials utilized to construct the insulator/metal/insulator stack are selected to optimize optical and physical properties of the electrochromic element such as reflectivity, color, electrical switch stability, and environmental durability.

IPC 8 full level
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CPC (source: EP KR US)
B60R 1/088 (2013.01 - EP KR US); **E06B 9/24** (2013.01 - KR); **G02F 1/13439** (2013.01 - KR); **G02F 1/153** (2013.01 - EP US); **G02F 1/155** (2013.01 - EP KR US); **G02F 1/157** (2013.01 - EP KR US); **G02F 1/161** (2013.01 - KR); **G02F 1/163** (2013.01 - KR); **E06B 9/24** (2013.01 - EP US); **G02F 1/13439** (2013.01 - EP US); **G02F 1/136204** (2013.01 - EP US); **G02F 1/161** (2013.01 - EP US); **G02F 1/163** (2013.01 - EP US); **G02F 2201/48** (2013.01 - EP KR US); **G02F 2203/02** (2013.01 - KR)

Citation (search report)
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US 2007206263 A1 20070906; US 7830583 B2 20101109; CA 2643644 A1 20070913; CA 2644126 A1 20070913; CN 102253559 A 20111123; CN 102253559 B 20160309; EP 1994443 A2 20081126; EP 1994443 A4 20101103; EP 1996974 A2 20081203; EP 1996974 A4 20101103; EP 2426552 A1 20120307; JP 2009529151 A 20090813; JP 2009529153 A 20090813; KR 101107467 B1 20120119; KR 20080106569 A 20081208; KR 20080112267 A 20081224; MX 2008011134 A 20080908; MX 2008011135 A 20080908; WO 2007103265 A2 20070913; WO 2007103265 A3 20080710; WO 2007103342 A2 20070913; WO 2007103342 A3 20080403

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